NUTRITION RESEARCH VOLUME 11, 1991
LIST OF CONTENTS

Volume 11, Number 1 1991

CONTENTS

Editorial

C. PRASAD and R.K. CHANDRA 1 Atherosclerosis: A Pediatric Problem?

Original Articles: Studies in Humans

E.E. WEIN, J. HENDERSON SABRY and F.T. EVERS 5 Nutrient Intakes of Native Canadians Near Wood Buffalo National Park

P. YASODHARA, L.A. RAMARAJU and L. RAMAN 15 Trace Minerals in Pregnancy 1. Copper and Zinc

K.I. BAGHURST, I.E. DREOSTI, J.A. SYRETTE, S.J. RECORD, P.A. BAGHURST and R.A. BUCKLEY 23 Zinc and Magnesium Status of Australian Adults

E. MANTERO-ATIENZA, M.K. BAUM, J.J. JAVIER, G. SHOR-POSNER, C.M. MILLON, J. SZAPOCZNIK, C. EISDORFER and R.S. BEACH 33 Nutritional Knowledge, Beliefs and Practices in the HIV Infected Patient

M.M. ABDELWAHAB, O.V. DIRIGE and H.M. WALLACE 41 Feeding Patterns of Infants and Children with Protein-Energy Malnutrition (PEM) in the Equatoria Region of Sudan

Original Articles: Studies in Laboatory Animals

P.R. TRUMBO and M.A. RAIDL 53 Effect of Sulfasalazine on Vitamin B-6 Status and Metabolism in Vitamin B-6 Adequate and Deficient Rats

K.G.D. ALLEN, K.J. LAMPI, P.J. BOSTWICK and M.M. MATHIAS 61 Increased Thromboxane Production in Recalcified Challenged Whole Blood from Copper-Deficient Rats

P-O. ASTORG and J. CHEVALIER 71 Phospholipid Fatty Acid Composition and Respiratory Properties of Heart and Mitochondria from Rats Fed With or Deprived of Linolenic Acid

J.L. ASHWIN, P.G. HARRIS and J.C. ALEXANDER 79 Effects of Thermally Oxidized Canola Oil and Chronic Low Ethanol Consumption on Aspects of Hepatic Oxidative Stress in Rats

J.W. FINLEY and R.L. KINCAID 91 Selenium and Glutathione Peroxidase Tissue Distribution in Rats: Effect of Dietary Intake and Total Body Burden of Selenium

S.W. THENEN 105 Gestational and Neonatal Folate Deficiency in Rats

C.N. FABER, W.F. DIVEN, A.E. AXELROD and R.H. GLEW 117 Changes in Serum Lysosomal Enzymes in the Vitamin B_6-Deficienct Weanling Rat

Brief Communication: Studies in Laboratory Animals

C.L.C. NASCIMENTO, M.V. GOMEZ and T. MORAES-SANTOS 129 Acetycholine and Related Enzymes from Neonatal Malnourished Rat Cerebral Cortex

(Contents Continued)

(Continuation of Contents)

Volume 11, Numbers 2/3 1991

CONTENTS

Original Articles: Studies in Humans

J. LeBLANC, A. NADEAU, I. MERCIER, C. McKAY and P. SAMSON — 133 — Effect of Guar Gum on Insulinogenic and Thermogenic Response to Glucose

M. L. SUNMAN, S.L. HOERR, H. SPRAGUE, H.W. OLSON and T.J. QUINN — 141 — Lifestyle Variables as Predictors of Survival in Former College Men

M.R.D.L. de UNAMUNO, J.E. DUTRA de OLIVEIRA, H. VANNUCCHI and J.S. MARCHINI — 149 — Protein Requirement Assessment of Elderly Men on a Rice and Beans Diet

Original Articles: Studies in Laboratory Animals

A.A. QURESHI, V. CHAUDHARY, F.E. WEBER, E. CHICOYE and N. QURESHI — 159 — Effects of Brewer's Grain and Other Cereals on Lipid Metabolism in Chickens

M.A. BANKS and J.F. GREGORY III — 169 — Intestinal β-Glucosidase Activity is Not Induced by Chronic Ingestion of Pyridoxine-β-D-Glucoside in Rats

K.J. JENKINS and J.K.G. KRAMER — 177 — Differential Effects of Dietary Fatty Acids on Fatty Acid Composition of Phosphotidylinositol in Calf Tissues

M. KALPALATHIKA, A. MAHONEY, P. WHITTAKER and D. HENDRICKS — 185 — Incorporation of Absorbed Iron from Different Dietary Sources into Hemoglobin

L.L STEPHEN, E.R. CHAVEZ and G. SARWAR — 197 — Nutritional Significance of Supplemented Taurine in the Milk Replacer of Early Weaned Piglets

T. SOBOTKA, R. BRODIE, Y. QUANDER and C. KOPRAL — 207 — Behavioral Assessment of Rats Fed a High Carbohydrate/Low Protein Meal

H. SANKARAN, G.C. BABA, C.W. DEVENEY and G.A. RAO — 217 — Enteral Macronutrients Abolish High Blood Alcohol Levels in Chronic Alcoholic Rats

G. W.-J. LIN — 223 — Effect of Dietary Folic Acid Levels and Gestational Ethanol Consumption on Tissue Folate Contents and Rat Fetal Development

A.P. HORNBY, J. LEICHTER and B.P. DUNN — 231 — The Influence of Chronic Ethanol Ingestion on the Absorption of Vitamin A by Adult Male Rats

F. MARZO, A. TOSAR and S. SANTIDRIAN — 239 — Influence of Feeding a Raw Kidney Bean Diet (*Phaseolus vulgaris* L.) on the Immune Function of Growing Chickens

J.M. CHARDIGNY and D. MOREAU — 251 — Effects of Dietary Fats on Cardiac Performance and Substrate Utilization in Isolated Perfused Rat Hearts

(Contents Continued)

(Continuation of Contents)

Brief Communication: Studies in Humans

R.A. SULIMANI, M. LAAJAM, O. AL-ATTAS, F.O. FUMUYIWA, M.O. MEKKI and A.A. AL-NUAIM — 261 — The Effect of Ramadan Fasting on Diabetes Control in Type II Diabetic Patients

Volume 11, Number 4 1991

CONTENTS

Original Articles: Studies in Humans

B.G. SHAH, A. GIROUX, B. BELONJE and P.W.F. FISCHER — 265 — Estimated Mineral Nutrients in a Representative Canadian Diet

H.H. DRAPER, L.A. PICHÉ and R.S. GIBSON — 273 — Effects of a High Protein Intake From Common Foods on Calcium Metabolism in a Cohort of Postmenopausal Women

C.K. BOOTH, G.R. CANNELL, H.P. ROESER and B. CHAM — 283 — Disposition of Vitamin K_1(Phylloquinone) in the Isolated Perfused Human Placental Lobule

F. MARDONES-SANTANDER, P. ROSSO, R. ZAMORA, F. MARDONES-RESTAT, N. GONZÁLEZ and D. UITERWAAL — 295 — Cost-Effectiveness of a Nutrition Intervention Program for Pregnant Women

J. RANDALL SIMPSON and L. HOFFMAN-GOETZ — 309 — Exercise, Serum Zinc, and Interleukin-1 Concentrations in Man: Some Methodological Considerations

Original Articles: Studies in Laboratory Animals

M.M. ALI, B. LAL, N. MATHUR and S.V. CHANDRA — 325 — Behavioral Toxicity of Cadmium in Rats in Relation to the Level of Protein Nutrition

D.S. SERES, M.J. BUNK, M.P. OSBORNE, R.S. RIVLIN and R.K. TIWARI — 337 — Effects of Marginal Dietary Zinc Deficiency and Vitamin E Supplementation on Hepatic Adenine Dinucleotide Phosphoribosyl Transferase Activity in Female Sprague-Dawley Rats

T. YAGI, K. MATSUOKA, Y. NAGATOSHI, S. YAMAMOTO and M. KASAI — 347 — Hemolysate Activation Coefficient and Its Relationship to Holoenzyme Levels of Aspartate Aminotransferase in Rabbit Erythrocytes

G. SARWAR, R.W. PEACE and H.G. BOTTING — 355 — Dietary Cysteine/Methionine Ratios and Taurine Supplementation: Effects on Rat Growth, Amino Acids and Bile Acids

R. BELKHOU, Y. CHEREL, A. HEITZ, J.-P. ROBIN and Y. Le MAHO — 365 — Energy Contribution of Proteins and Lipids During Prolonged Fasting in the Rat

M.E. HARPER, J. HIMMS-HAGEN and J. PATRICK — 375 — Diet-Induced Obesity and Na,K Transport in Erythrocytes and Thymocytes of Sprague Dawley Rats

B.G. SHAH and B. BELONJE — 385 — Different Dietary Calcium Levels Required to Prevent Nephrocalcinosis in Male and Female Rats

(Contents Continued)

(Continuation of Contents)

Letter to the Editor

K.G. BERGER 391 Diet and Heart Disease - Is There Another Factor?

Volume 11, Number 5 1991

CONTENTS

Original Articles: Studies in Humans

C.C. HORWATH 395 Dietary Intake and Nutritional Status Among University Undergraduates

O. OSILESI, D.L. TROUT, J.O. OGUNWOLE and E.E. GLOVER 405 Blood Pressure and Plasma Lipids during Ascorbic Acid Supplementation in Borderline Hypertensive and Normotensive Adults

J.R. HUNT, G.I. LYKKEN and L.K. MULLEN 413 Moderate and High Amounts of Protein from Casein Enhance Human Absorption of Zinc from Whole-Wheat or White Rolls

C. CASTILLO-DURÁN and N.W. SOLOMONS 419 Studies on the Bioavailability of Zinc in Humans. VIII. Plasma Zinc Responses to Cooked Beef

C. CASTILLO-DURÁN and N.W. SOLOMONS 429 Studies on the Bioavailability of Zinc in Humans. IX. Interaction of Beef-Zinc with Iron, Calcium and Lactose

Original Articles: Studies in Laboratory Animals

Y-S HUANG, P. REDDEN, X. LIN, R. SMITH, S. MACKINNON and D.F. HORROBIN 439 Effect of Dietary Olive Oil Non-Glyceride Fraction on Plasma Cholesterol Level and Liver Phospholipid Fatty Acid Composition

M.D. BALL and J.A. OLSON 449 The Selectivity of Acyl Coenzyme A:Retinol *O*-Acyltransferase Toward Its Fatty-Acyl-CoA Substrate

W.G. POND and H.J. MERSMANN 461 Subsequent Response to Early Diet Cholesterol and Feed Restriction in Swine

D.K. SAXENA, C. SINGH R.C. MURTHY and S.V. CHANDRA 471 Lead Distribution in Iron-Deficient Rats: I. Lead Exposure during the Period of Organogenesis

N.W. SCHOENE and J.P. CHURCH 479 Differential Effects of Dietary Fats on Aggregation of Platelets from Rats

A. MITTAL and B. WOODWARD 491 Development of Ultrastructural Abnormalities in the Thymic Stellate Epithelial Cells of Weanling Mice Subjected to Severe Food Intake Restriction

Original Articles: Studies in Laboratory Animals

D.N. FUNK, B. WORTHINGTON-ROBERTS and A. FANTEL 501 Impact of Supplemental Lysine or Tryptophan on Pregnancy Course and Outcome in Rats

(Contents Continued)

(Continuation of Contents)

Review Article

L.M. CHYCHUL, T.K. BASU and M.K. DASGUPTA 513 Continuous Ambulatory Peritoneal Dialysis and Micronutrients: A Review

Volume 11, Number 6 1991

CONTENTS

Original Articles: Studies in Humans

F. MARDONES-SANTANDER, G. SALAZAR, F. VIO, A. POLLASTRI, E. AGUIRRE and C. INFANTE 527 Measurement of Total Body Water in Pregnant Women Using Deuterium Dilution: Validation of the Plateau Method

A.C. SHAPIRO, S.N. MEYDANI, M. MEYDANI, F. MORROW, J.R. McNAMARA, E.J. SCHAEFER, S. ENDRES and C.A. DINARELLO 539 The Effect of Fish Oil Supplementation on Plasma α-Tocopherol, Retinol, Lipid and Lipoprotein Levels in Normolipidemic Subjects

W.O. CASTER and O. MICKELSEN 549 Effect of Diet and Stress on the Thiamin and Pyramin Excretion of Normal Young Men Maintained on Controlled Intakes of Thiamin

P. PONGPAEW, F-P. SCHELP, V. SUPAWAN, B. PRAYURAHONG, U. MAHAWEERAWAT, C. INTARAKHAO, P. SRIBOONLUE and P. MIGASENA 559 Influence of Dietary Intake on Alpha-2-Macroglobulin and Other Biochemical Parameters in Healthy Thai Males

Original Articles: Studies in Laboratory Animals

P. GROLIER, A. CISTI, M. DAUBEZE and J.F. NARBONNE 567 The Influence of Dietary Vitamin A Intake on Microsomal Membrane Fluidity and Lipid Composition

M. MEGHELLI-BOUCHENAK, J. BELLEVILLE, M. BOQUILLON and J. PROST 575 Metabolism of Serum VLDL-, LDL-, and HDL-Apoproteins in Rats on Two Different Low Protein Diets

M. MEGHELLI-BOUCHENAK, J. BELLEVILLE, M. BOQUILLON, B. SCHERRER and J. PROST 587 Removal Rates of Rat Serum [^{3}H] Labeled Very Low Density Lipoproteins After Consumption of Two Different Low Protein Diets

H.L. STILBORN, J.K. SKEELES and P.W. WALDROUP 599 The Effects of a Urea-Formaldehyde Resin Pellet Binder in Diets for Laying Hens on Performance and Blood Parameters

E. LEVY, T. ROULEAU, G. LEPAGE, L. SMITH, J-L. JUNIEN and C.C. ROY 607 Partially Purified Rabbit Gastric Lipase: In Vitro and In Vivo Experiments to Assess Its Potential Contribution to Gastric and Intestinal Lipolysis

F.E. WOOD and S.J. STOLL 621 The Effect of Dietary Guar Gum and Cellulose on Mineral Excretion and Status in Young Male Fischer 344 Rats

R.R. BELL and T.J. McGill 633 Body Composition and Brown Adipose Tissue in Sedentary and Active Mice

N.J. BRUNS, E.T. GUGGER, P.V. JOHNSTON and J.W. ERDMAN 643 The Relationship Between Plasma, Leukocyte and Leukocyte Membrane Beta-Carotene Concentrations in Bovine Animals

(Contents Continued)

(Continuation of Contents)

M.L. MASOR, M.L. GRUNDLEGER and G.R. JANSEN	649	Effect of Dietary Protein Quality and Quantity on Glucose Utilization in Rat Mammary Glands During Lactation
P.R. TRUMBO	663	Effect of Vitamin B-6 Status of the Lactating Rat on Taurine Biosynthesis and Availability to the Suckling Pup
D. KRÜGER, R. GROSSKLAUS, L. KLINGEBIEL, T. ZIESE and S. KOCH-GENSECKE	669	Caloric Availability of Palatinit^{R} (Isomalt) in the Small Intestine of Rats: Implications of Dose Dependency on the the Energy Value
T.M. PETRO, K.M. SCHWARTZ and M.J. SCHMID	679	Natural and Immune Anti-Tumor Interleukin Production and Lymphocyte Cytotoxicity During the Course of Dietary Protein Deficiency or Excess
		Brief Communication: Studies in Laboratory Animals
S. ZAMENHOF	687	Depletion of Individuals with "Outstandingly High" Cerebral Development in Rats Subjected to Prenatal Undernutrition

Volume 11, Number 7 1991

CONTENTS

		Original Articles: Studies in Humans
M. NAGI, S.K. MANN and K.K. SHARMA	691	Nutritional Status of Anaemic and Non-Anaemic Young Punjabi Women
Z.A. AL-MOUSA, A.S. HASSAN and P. PRAKASH	705	Media-Conveyed Nutritional Information and the Nutritional Awareness of Literate Adults in Kuwait
K.I. BAGHURST, J.A. SYRETTE and M.M. TRAN	715	Dietary Profile of Vietnamese Migrant Women in South Australia
R.E. KEITH and L.A. ALT	727	Riboflavin Status of Female Athletes Consuming Normal Diets
D.A. SEDLOCK	735	The Effect of Acute Nutritional Status on Postexercise Energy Expenditure
		Original Articles: Studies in Laboratory Animals
K. IWAMI, M. KITAGAWA and F. IBUKI	743	Variation of Ileal Taurocholate Transport Capacity in Rats Fed on High-Fat Diets and in Alloxan-Diabetic Rats
M.M. ENGLER, J.W. KARANIAN and N. SALEM JR.	753	Influence of Dietary Polyunsaturated Fatty Acids on Aortic and Platelet Fatty Acid Composition in the Rat
R.K. MARYA, A.S. SAINI, H. LAL and K. CHUGH	765	Role of Vitamin D in Perinatal Growth in the Rat
J.E. BAUER	771	Serum Lipoprotein Alterations of Rabbits Fed High Fat Soy Protein-Dextrose Diets

(Contents Continued)

(Continuation of Contents)

V. DODANE, J. CHEVALIER and P. RIPOCHE	783	NA^+/D-Glucose Cotransport and Sucrase Activity in Intestinal Brush Border Membranes of Zucker Rats. Effects of Chronic Acarbose Treatment
E. MIYAZAWA and T. YOSHIDA	797	Effects of Dietary Levels of Phytate and Inorganic Phosphate on Phytate Breakdown and Absorption of Calcium and Magnesium in Rats
M.J.P. MAZIER and J. LEBLANC	807	How Dietary Fat Intake Affects Cold Tolerance and Energy Balance in the Rat
T. NAGASAWA, Y.V. YUAN and D.D. KITTS	819	Casein Phosphopeptides Enhance Paracellular Calcium Absorption but Do Not Alter Temporal Blood Pressure in Normotensive Rats
		Brief Communication: Study in Laboratory Animals
R.J. WOOD, J. CONTOIS and C. WILKENING	831	Intestinal Adaptation to Dietary Calcium Restriction in Rats Fed High Protein Diets
		Review Article
J.A. DRISKELL and M.K. KORSLUND	835	Nutritional Assessment of Southern Adolescent Girls - A Review

Volume 11, Number 8 1991

CONTENTS

		Original Articles: Studies in Humans
D.R. SAUNDERS	841	Absorption of Short-Chain Fatty Acids in Human Stomach and Rectum
M.E. EFFERTZ, P. DENMAN and J.L. SLAVIN	849	The Effect of Soy Polysaccharide on Body Weight, Serum Lipids, Blood Glucose, and Fecal Parameters in Moderately Obese Adults
A. TURRINI, A. SABA and C. LINTAS	861	Study of the Italian Reference Diet for Monitoring Food Constituents and Contaminants
S. ANTONACI, E. JIRILLO, A. POLIGNANO, C. TORTORELLA and L. BONOMO	875	Phagocyte Dysfunctions in Malnourished Elderly Humans: Effects of *In Vitro* Nutrient Supplementation
A.T. GUIRO, P. GALAN, F. CHEROUVRIER, M.G. SALL and S. HERCBERG	885	Iron Absorption from African Pearl Millet and Rice Meals
		Original Articles: Studies in Laboratory Animals
A.M. PRESTON, J. TOMÉ, J.J. MORALES, L. MILÁN, A.A. CUEVAS, J. MEDINA and J.A. SANTIAGO	895	Diabetic Parameters 58 Weeks After Injection with Streptozotocin in Rats Fed Basal Diets or Diets Supplemented with Fiber, Minerals and Vitamins

(Contents Continued)

(Continuation of Contents)

L. CARA, P. BOREL, M. ARMAND, M. SENFT, M. RIOTTOT, J. FEREZOU and D. LAIRON	907	Effects of Increasing Levels of Raw or Defatted Wheat Germ on Liver, Feces and Plasma Lipids and Lipoproteins in the Rat
C.H. LEE, M. KOMAI and S. KIMURA	917	Effects of Dietary Protein Levels and Capsaicin on Salt Intake in SHR and Wistar Rats
J. APGAR and G.A. EVERETT	929	The Guinea Pig as a Model for Effects of Maternal Nutrition on Pregnancy Outcome
O.A. LEVANDER, A.L. AGER, JR., V.C. MORRIS and R.G. MAY	941	Protective Effect of Ground Flaxseed or Ethyl Linolenate in a Vitamin E-Deficient Diet Against Murine Malaria
		Review Article
M.E. NURGE, C.R. ANDERSON and E. BATES	949	Metabolic and Nutritional Implications of Valproic Acid

Volume 11, Number 9 1991

CONTENTS

		Original Articles: Studies in Humans
M. Schnepf and T. Madrick	961	The Solubility of Calcium from Antacid Tablets, Calcium Supplements and Fortified Food Products
C.L. Melby, S. Sylliaasen and T. Rhodes	971	Diet-Induced Weight Loss and Metabolic Changes in Obese Women with High versus Low Prior Weight Loss/Regain
L. Medeiros, W. Russell and R. Shipp	979	Nutrition Knowledge as Influenced by Source of Nutrition Information
R.O. Abidoye and O. Randle	989	Comparative Nutritional Assessment of Children in Military and Private Schools in Nigeria
		Original Articles: Studies in Laboratory Animals
S.M. Filteau and N.R.S. Hall	1001	Increased Production of Tumor Necrosis Factor and Interleukin 1 by Peritoneal Macrophages from Severely Undernourished Mice: Lack of Correlation with Serum Corticosterone
J.S. Charnock, M.Y. Abeywardena, D. Tan and P.L. McLennan	1013	Omega-3 and Omega-6 Pufa's have Different Effects on the Phospholipid Fatty Acid Composition of Rat Myocardial Muscle when Added to a Saturated Fatty Acid Dietary Supplement
J.S. Charnock, P.L. McLennan, K. Sundram and M.Y. Abeywardena	1025	Omega-3 Pufa's Reduce the Vulnerability of the Rat Heart to Ischaemic Arrhythmia in the Presence of a High Intake of Saturated Animal Fat

(Contents Continued)

(Continuation of Contents)

Z. Madar and Z. Omunsky	1035	Inhibition of Intestinal α-Glucosidase Activity and Postprandial Hyperglycemia by α-Glucosidase Inhibitors in FA/FA Rats
A.A. Zalesky, G.M. Borcher and E.T. Clemens	1047	Porcine Colonic Microstructure and Function as Affected by the Feeding of Casein and Soy Protein
J.D. Radcliffe	1055	Comparison of the Effect of Dietary Casein and Cottonseed Protein on Food Intake and Growth in Normal and Tumor-Bearing Rats
		Review Article
H.-R. Zhou, M.E. Cullum and M.H. Zile	1067	Production and Characterization of Mouse Polyclonal Antibodies to Retinoic Acid in Ascites Fluid
		Brief Communications
J.Kaur, R.K. Marya, S. Rathee, H. Lal and G.P. Singh	1077	Effect of Pharmacological Doses of Vitamin D During Pregnancy on Placental Protein Status and Birth Weight
C.A. Mattacks and C.M. Pond	1083	Site-Specific Differences in the Uptake in Vivo of 2-Deoxyglucose by Adipose Tissue in the Djungarian Hamster, Phodopus Sungorus
	1087	Erratum

Volume 11, Number 10 1991

CONTENTS

Original Articles: Studies in Humans

T.D. SHULTZ, W.R. BONORDEN and W.R. SEAMAN	1089	Effect of Short-Term Flaxseed Consumption on Lignan and Sex Hormone Metabolism in Men
M.A. LLOYD-PURYEAR, J. MAHONEY, J.H. HUMPHREY, F. MAHONEY, N. SIREN, C. MOORMAN and K.P. WEST	1101	Vitamin A Deficiency in Micronesia: A Statewide Survey in Chuuk
M. FOGELHOLM, J. LAAKSO, J. LEHTO and I. ROUKONEN	1111	Dietary Intake and Indicators of Magnesium and Zinc Status in Male Athletes
T.L. BAZZARRE, S.L. WU, S.D. MURDOCH and R.G. HOPKINS	1119	Nutritional Status, Energy Expenditure, Body Fat, Stress and Cardiovascular Disease Risk Factors of North Carolina Farm Families
D. ROYALL and T.M.S. WOLEVER	1137	Relationship Between Foods of Varying Fermentability and Colonically Derived Blood Acetate

(Contents Continued)

(Continuation of Contents)

Original Articles: Studies in Laboratory Animals

M. MORI, T. KORIN, M.-F. WANG, L. ASATO, S. YAMAMOTO and Y. NIIYAMA — 1147 — Supplementary Effect of Egg White Protein on the Utilization of Soy Protein Isolate in Growing Rats

G.J. WIBERT, D.K. LAYMAN and S.O.K. HONG — 1155 — An *In Vivo* Examination of the Effects of Leucine on Skeletal Muscle Protein Synthesis in the Fasting Rat

L.K.O. YUYAMA, R.M. DUARTE FAVARO, K. YUYAMA and H. VANNUCCHI — 1167 — Bioavailability of Vitamin A from Peach Palm (Bactris gasipaes H.B.K.) and from Mango (Mangifera indica L.) in Rats

O.E. ODELEYE, C.D. ESKELSON R.R. WATSON, S.I. MUFTI, D. EARNEST AND M. CHVAPIL — 1177 — Effect of Ethanol Consumption and Vitamin E Supplementation on *In Vivo* Lipid Peroxidation in Rats

S. GARCIA-LOPEZ and G.D. MILLER — 1187 — Bioavailability of Calcium from Four Different Sources

R.W. PEACE, G. SARWAR, S.P. TOUCHBURN and H.G. BOTTING — 1197 — Effects of Soybean Trypsin Inhibitors and DL-Ethionine on Growth and Serum Parameters in Young Rats

Letter to the Editor

M. JAN and S.K. ALI — 1209 — A Traditional Remedy for the Enhancement of Lactation

F.-P. SCHELP — 1211 — International Nutritional Immunology Group

1213 Announcements

Volume 11, Number 11 1991

CONTENTS

Original Articles: Studies in Humans

R.E. BLACK and M. LEVINE — 1215 — Intestinal Protein Loss in Shigellosis

R. BELLÙ, M.T. ORTISI, P. INCERTI, V. MAZZOLENI, G. MARTINOLI, C. AGOSTONI, C. GALLUZZO, E. RIVA and M. GIOVANNINI — 1221 — Nutritional Survey on a Sample of One-Year-Old Infants in Milan: Intake of Macronutrients

L. RAMAN, P. YASODHARA and L.A. RAMARAJU — 1231 — Calcium and Magnesium in Pregnancy

E. MANTERO-ATIENZA, M. GAVANCHO SOTOMAYOR, G. SHOR-POSNER, M.A. FLETCHER, H.E. SAUBERLICH, R.S. BEACH and M.K. BAUM — 1237 — Selenium Status and Immune Function in Asymptomatic HIV-1 Seropositive Men

R. ROGERSON, M.L. GALLAGHER, E.M. ZALLEN and B.A. McMILLEN — 1251 — Urinary Tryptophan Metabolites in Diabetic and Non-Diabetic Juveniles

(Contents Continued)

(Continuation of Contents)

Original Articles: Studies in Laboratory Animals

Y.V. YUAN and D.D. KITTS	1257	Confirmation of Calcium Absorption and Femoral Utilization in Spontaneously Hypertensive Rats Fed Casein Phosphopeptide Supplemented Diets
K. KUGINO and Y. KISHINO	1273	Effect of Voluntary Exercise on Pancreatic Function of Rats
M.A. CARLOMAGNO, A.R. RIARTE and E.L. SEGURA	1285	Effects of Renutrition on Caloric-Deficient Mice During Trypanosoma cruzi Infection
J.A. BUTLER, J.T. DEAGEN, J.B.J. VAN RYSSEN, K.E. ROWE and P.D. WHANGER	1293	Bioavailability to Rats of Selenium in Ovine Muscle, Liver and Hemoglobin
J.M. BELL and M.O. KEITH	1307	Effect of Pig Weight and Barley Hulls on the Digestibility of Energy, Protein and Fiber in Wheat, Corn and Hulless Barley Diets
S.F. CHIN and K.R. ROBBINS	1317	Relation of Arginine Nutrition to Mammary Gland Development in the Rat
J. TOVAR, R.-D. DUAN, C. ERLANSON-ALBERTSSON and I.M. BJÖRCK	1329	Starch Digestibility in the Diabetic Rat

Brief Communication

R.F. DERR AND K. DRAVES	1335	Effect of Restricted Diet Intake on Pups and Stress Resistance of Rats

Volume 11, Number 12 1991

CONTENTS

Original Articles: Studies in Humans

S.A. NAGRA, T. ANWAR, J. ANWAR and M.I. FAROOQI	1341	Longitudinal Study in the Concentration of Serum Calcium, Copper, Magnesium, Zinc and Hemoglobin During the Last Trimester of Pregnancy in Pakistani Women
P.A. ROBB, T.M.S. WOLEVER and J. HASSANEIN	1349	Use of Breath Hydrogen to Quantify Carbohydrate Malabsorption: Lack of Effect of Soluble Fibre (GUAR)
E.M. KNIGHT, B.G. SPURLOCK, A.A. JOHNSON, U.J. OYEMADE, O.J. COLE, W.L. WEST, M.G. MANNING, G. NOLAN, D. BONDS, H. LARYEA, S. JONES, L. WESTNEY and C.H. EDWARDS	1357	Hematologic and Vitamin Status of African American Women and Their Relationships to Pregnancy Outcome
E.S.K. CHOI, P.F. JACQUES, G.E. DALLAL and R.A. JACOB	1377	Correlation of Blood Pressure with Plasma Ascorbic Acid
C.J. LEE, J. TSUI, E. GLOVER, L.B. GLOVER, M. KUMELACHEW, A.P. WARREN, G. PERRY, S. GODWIN, S.K. HUNT, M. McCRAY and F.E. STIGGER	1383	Evaluation of Nutrient Intakes of Rural Elders in Eleven Southern States Based on Sociodemographic and Life Style Indicators

(Contents Continued)

(Continuation of Contents)

B. DIBBA, L.T. WEAVER and G.J. HUDSON	1397	Water Content of Cooked Rice is Related to Variety and Cooking Method
		Original Articles: Studies in Laboratory Animals
W.T. JOHNSON and J.T. SAARI	1403	Temporal Changes in Heart Size, Hematocrit and Erythrocyte Membrane Protein in Copper-Deficient Rats
E.J. SAMBUICHI, F. SHIZUKA and K. KISHI	1415	The Influence of Dietary Protein on Lipid Peroxide Formation in Old, Food Restricted Rats
J.M. GUTIERREZ, I. ALVAREZ, F. DIAZ, S. FERNANDEZ and A. MENENDEZ-PATTERSON	1427	Influence of Nitrogen Balance and Intestinal Glucose Absorption on Growth of Rats Recovery from Early Undernutrition
D.M. MEDEIROS, M.L. FAILLA, H.M. SCHOENEMANN and G.D. OVECKA	1439	Morphometric Analysis of Myocardium from Copper-Deficient Pigs
I.S. SHIN, F.N. OWENS, J.E. PETTIGREW and J.W. OLTJEN	1451	Apportioning Histidine Requirements for Maintenance Versus Growth
		Brief Communications
S.J. FAIRWEATHER-TAIT and A.J.A. WRIGHT	1465	Small Intestinal Transit Time and Iron Absorption
	1469	List of Contents, Volume 11, 1991
	1481	Author Index

Reproduced with the permission of Pergamon Press Inc., by University Microfilms Inc. Duplication or resale without permission is prohibited.